VERTEX2015: The 24th International Workshop on Vertex Detectors

Contribution ID: 90

Type: not specified

## STAR silicon upgrade

A primary goal of the high luminosity era at RHIC will be the study of heavy quark behavior in Quark Gluon Plasma. The integration of high precision silicon-based tracking in the form of the Heavy Flavor Tracker for the STAR Experiment should enable the reconstruction and identification of charmed hadron decays, working in concert with STAR's Time Projection Chamber to determine momenta and displacement of decay daughters from the primary collision vertex. To reach the precision demands, the new detectors must be calibrated and sufficiently accounted in tracking to observe charmed hadrons with high signal-to-noise. In this presentation we will review the STAR Collaboration's developments and achievements in this critical effort.

Primary author: Dr VAN BUREN, Eugene (Brookhaven National Laboratory)Presenter: Dr VAN BUREN, Eugene (Brookhaven National Laboratory)